EXHIBIT 12

	Page 1
1	UNITED STATES DISTRICT COURT
	NORTHERN DISTRICT OF GEORGIA
2	GAINESVILLE DIVISION
3	SANTANA BRYSON and
	JOSHUA BRYSON, as Admnistrators
4	of the Estate of C.Z.B. and as
	surviving parents of C.Z.B, a
5	deceased minor,
6	Plaintiffs,
7	vs. CASE NO.: 2:22-CV-017-RWS
8	ROUGH COUNTRY, LLC,
9	Defendant.
10	
	VIDEOTAPED
11	DEPOSITION OF: CHRISTOPHER D. ROCHE
12	DATE: July 17, 2024
13	TIME: 9:14 a.m.
14	LOCATION: Ann Arbor, Michigan
15	TAKEN BY: Counsel for the Defendant
16	REPORTED BY: Mary K. Stepp, Court Reporter
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	Page 2
1	
2	APPEARANCES OF COUNSEL:
	ATTORNEY FOR PLAINTIFF:
3	(Appearance via Zoom)
4	CANNELLA SNYDER, LLC
	TEDRA L. CANNELLA, ESQUIRE
5	DEVIN L. MASHMAN, ESQUIRE 315 Ponce de Leon Avenue
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9	ATTORNEY FOR DEFENDANT:
10	
	(Appearance via Zoom)
11	WEINBERG WHEELER HUDGINS
12	GUNN & DIAL, LLC RICHARD H. HILL, ESQUIRE
12	3344 Peachtree Road, N.E.
13	Suite 2400
	Atlanta, Georgia 30326
14	rhill@wwhgd.com
15 16	
Τ 0	ALSO PRESENT:
17	TIES OF TREE ENT.
	Mike Brown, Videographer
18	
19	(INDEX AS DEAD OF SDANGGDIDS)
20	(INDEX AT REAR OF TRANSCRIPT)
21	
22	
23	
24	
25	

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	Page 3
1	THE VIDEOGRAPHER: We're on the record.
2	The date, July the 17th, 2024. Time on the video
3	monitor, 9:14 a.m., marks the beginning of video 1,
4	deposition of Christopher Roche, in the matter
5	Santana and Joshua Bryson versus Rough Country, LLC.
6	My name is Mike Brown, representing
7	Veritext Legal Solutions. I'm the videographer. Our
8	court reporter is Mary Stepp.
9	Counsel, please state your name for the
10	record and whom you represent.
11	MS. CANNELLA: Tedra Cannella, Devin
12	Mashman for the Plaintiffs, the Bryson family.
13	MR. HILL: Rick Hill for Defendant Rough
14	Country.
15	THE VIDEOGRAPHER: Will the court reporter
16	please swear in the witness.
17	(Witness sworn.)
18	CHRISTOPHER D. ROCHE,
19	having been duly sworn, testified as follows:
20	EXAMINATION
21	BY MR. HILL:
22	Q. Thank you, Mr. Roche. I'm going to share
23	my screen here, at least attempt to.
24	Are you able to see the screen now? It's
25	a should have on there the Investigation of the

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	Page 4
1	Bryson Crash, your report dated June 14th, 2024.
2	A. Yes, I can.
3	MR. HILL: All right. And this I'd
4	like to mark this as Exhibit 1 to the deposition.
5	It's Bryson 9379 through 9398.
6	(Defendant's Exhibit No. 1 was marked for
7	identification.)
8	BY MR. HILL:
9	Q. Have you brought this with you today to
10	the deposition?
11	A. Yes, I have. I have it in front of me.
12	Q. Okay. Great.
13	MR. HILL: And now I would like to mark as
14	Exhibit 2 a document that we received just minutes
15	prior to the start of your deposition.
16	(Defendant's Exhibit No. 2 was marked for
17	identification.)
18	BY MR. HILL:
19	Q. Let me see if I can share my screen again.
20	Sorry for the technological delay. On the screen now
21	should be a document entitled "Material Received -
22	Amended List." Are you able to see that?
23	A. No, I can't see that at the moment.
24	Q. All right. Are you able to see it now?
25	A. Yes, I can.

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Q. Okay. Great. This document is

Bates-labeled Bryson 10995. This Amended List, when
was this prepared?

A. So, I think it was prepared in the last day or so. I am noticing that some of that Amended List is an over -- is a duplication of my first supplemental report, list of availables -- materials available for review. So that for production had already been stated in my prior supplemental report.

Q. Okay. Well, let's --

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MS. CANNELLA: I'll just state for the record what I stated while the witness and counsel were here earlier. We -- our -- my office produced this moments ago because we realized that the Buchner two -- last two Buchner reports and the Buchner rough rebuttal deposition is not on it. So the list is the same in all things, except for the last three items. BY MR. HILL:

Q. Okay. So if we look at the bottom of this list, I think what Ms. Cannella is referring to is everything below where it says "Deposition of Jonathan Eisenstat with all exhibits." Is it your testimony, Mr. Roche, that the material below what I've just mentioned are the new materials that you're adding to your list of materials reviewed in

	Page 6
1	connection with your June 14th report?
2	A. So those materials have been made
3	available to me. I have seen the Buchner amended
4	report, the rebuttal report, and his deposition, but
5	that was subsequent to this report being authored.
6	Q. Okay. So the material listed in your June
7	14th report, that is material that you reviewed or
8	was made available to you prior to June 14th that was
9	in addition to the material that was listed in your
L O	initial and supplemental reports, is that a fair
11	statement under Section B of your June 14th report?
12	A. Yes, I would agree with that.
13	Q. Okay. And prior to issuing your June 14th
L 4	report, is there any material that was made available
15	to you for review, other than what's listed in
16	Section B of your June 14th report and what was
L 7	listed in prior reports of you know, predating
18	June 14th?
19	A. No, I don't believe so.
20	Q. Okay. And then now moving to this Bryson
21	10995, which I'd like to mark as Exhibit 2, if I
22	didn't mention that earlier. I believe what you're
23	saying is that the bulk of this is repetitive of
2.4	material vou've already listed, and that the only new

material you've reviewed since June 14th are

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	Page 7
1	Bucknel Buchner's rebuttal. And it says "depa."
2	I assume that means meant to be "depo" file
3	materials, which is listed as Bryson 9409 through
4	9527; the Quest FR26 Report; the Quest FR26 Report
5	Support; the Buchner Amended FR26 Report; the Buchner
6	Rebuttal Report; and the Rough Draft of Bryant
7	Buchner's Rebuttal Deposition. Is that have I
8	correctly described that?
9	A. Yes, I think that's a fair description.
10	Q. All right. And when it references the
11	Quest FR26 Report, 10519 Bryson, what what is
12	that? Is that the original Quest report or is
13	that what is that referring to?
14	A. Yes, I think that's Mr. Buchner's original
15	report.
16	Q. And same when with regard to Quest FR26
17	Report's Support? Is that that the support that
18	references his original support?
19	A. I believe so, yes.
20	Q. Okay. And did you review those for the
21	first time after June 14th?
22	A. I guess.
23	Q. Okay. And was this document here that's
24	been listed as Exhibit 2, did did you draft this?
25	A. I did not. Ms. Cannella's office drafted

	Page 8
1	that.
2	Q. Okay. And was that at your direction
3	or or tell me how that came to be.
4	A. Well, those materials were provided to me
5	in the last few days. And obviously my current
6	report that you have dated June 14th doesn't
7	accurately reflect those new materials. So it was
8	agreed that we should make sure that was clear.
9	Q. All right. Do you know exactly when you
10	were provided with these additional materials after
11	June 14th?
12	A. Uhm, I know the deposition transcript or
13	the initial draft of it was provided on Friday, uhm,
14	but the dates of the others I don't remember. It's
15	been in the last few days.
16	Q. All right. And did you produce any
17	correspondence from Ms. Cannella that relates to your
18	receipt of these additional materials?
19	A. I did provide correspondence files that
20	were relevant. I don't recall if I captured this
21	most recent correspondence, though. Because I had
22	that file, assuming we would depose on Friday, and so
23	I captured the correspondence up till Friday. I
24	don't think I've managed to capture any
25	correspondence subsequent to that.

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1	MS. CANNELLA: We can get that to you,
2	Rick.
3	MR. HILL: Sure.
4	MS. CANNELLA: No problem.
5	BY MR. HILL:
6	Q. Is it safe to say that the opinions that
7	you've rendered in your June 14th report, that if we
8	look at the materials listed in under paragraph B
9	of that report and we combine it with all of the
10	material you have listed in prior reports, that we
11	have an exhaustive list of the material that you had
12	available to you in issuing your June 14th report?
13	A. Yes, that's correct.
14	Q. Okay. If we then add the material on
15	10995, do we have an exhaustive list of all of the
16	material you've reviewed or been made available to
17	you prior to today?
18	A. Yes, I think that's also true.
19	Q. Okay. Have you ever requested an
20	opportunity to inspect the crash test vehicles?
21	A. I was not aware that those vehicles were
22	available, at the time I was authoring this this
23	report.
24	Q. Did you ask if they were available?
25	A. I think Ms. Canne Cannella and I

	Page 10
1	discussed it. Uhm, but frankly their first step was
2	to go through the materials provided and to see if it
3	was sufficient for me to write this report, and they
4	were, at that time.
5	Q. When did you learn that the materials I
6	mean, that the test vehicles were available for
7	inspection?
8	A. Well, frankly, that was only really
9	confirmed when I read Mr. Buchner's deposition
10	transcript.
11	Q. And when you say last Friday, that would
12	be July 15th or wait, no, I'm sorry. July 12th?
13	A. Last last Friday. July 12th, yes.
14	Q. All right. How many crash tests in your
15	career have you performed or participated in, in
16	connection with your work as a consultant in
17	litigation?
18	A. So you're referring specifically to my
19	time at Robson Forensic?
20	Q. Yeah. As a your time at Robson
21	Forensic, you work as a consultant. And I think we
22	talked in your previous depositions about your
23	experience in that capacity in a litigation context.
24	And so my question is, how many crash
25	tests have you been involved in, in connection with

	Page 11
1	your consulting work in litigation?
2	A. And by can you define what you mean by
3	"crash test"?
4	Q. Sure. An actual, real wor real world
5	crash test, where vehicles are crashed in connection
6	with the litigation.
7	A. So, I can think of so, sorry to be
8	asking so many questions. But you mean where I
9	initiated, uhm, the request for testing and conducted
10	the testing or was involved in reviewing crash
11	testing that had been conducted by another party?
12	Q. Either one. We know you've reviewed the
13	crash test conducted by another party in this case,
14	so we'll start with that.
15	Have you in any other cases reviewed crash
16	testing conducted by another party?
17	A. Yes, I have.
18	Q. All right. Tell me about that.
19	A. So, that is a case that was it's listed
20	on my deposition history. So that was I'll have
21	to look at that list. It was the case against Ford.
22	It is the Young versus Procomm Advanced Quality
23	Solutions is is the case that's listed on my
24	testimony history. So the one back when I was
25	deposed in October of last year.

	Page 12
1	Q. Right. All right. Any other cases where
2	you analyzed any type of crash testing done by the
3	other party?
4	A. I'm currently engaged in organizing
5	testing for another case, so I would that case
6	is testing in that case is still ongoing. So
7	that's another example.
8	In terms of for vehicle crash tests,
9	no, I think the I think that is the the one
10	one other case I've examined for vehicle crash
11	tests
12	Q. All right. And and go ahead.
13	Sorry. Thought you were finished.
14	A. Yeah, with respect to litigation,
15	obviously my prior experience was involved in many,
16	many crash tests.
17	Q. Right. Well, I'm I'm asking just in
18	the context of litigation. So I don't want you to
19	disclose any confidential information about the other
20	tests. But you said you're you're currently, I
21	guess, consulting as an expert in another case where
22	you said you are organizing testing for that case.
23	Did I hear that correctly?
24	A. Yeah. I'm investigating the possibility
25	of conducting testing related to to that

	Page 13
1	particular case.
2	Q. Okay. So testing hasn't actually occurred
3	in that other case?
4	A. That's correct.
5	Q. All right. And is that the only case in
6	the litigation context where you have either
7	organized, directed or participated in any way in
8	in an actual crash test?
9	A. No. There's been other cases where we
10	were looking at the possibility or actually
11	determining the test setup and procedures. So there
12	have been other instances where I was involved in
13	test setup, test planning.
14	Q. And did those tests actually go forward?
15	A. They they did not in that case.
16	Q. Okay. So has there ever been a case where
17	you have participated in, in the ways you've
18	described, a crash test that actually went forward in
19	the litigation context?
20	A. Well, the the example I gave you
21	earlier was the case where I was deposed last year,
22	where two crash tests were performed. And I was able
23	to review all the materials related to those crash
24	tests.
25	Q. Yeah. Maybe I asked it the wrong way. I

	Page 14
1	mean, in situations where your side of the V, the
2	client that you were retained by, where crash testing
3	was done on their behalf, have you ever been involved
4	in a case where crash testing of that type actually
5	went forward?
6	A. Not at this time.
7	Q. Okay. Now that you've had a chance to
8	review the deposition of Mr. Buchner and his amended
9	and rebuttal reports, are you aware whether he has
10	any criticisms of the way the test Escape was
11	ballasted in this case?
12	A. I'm not going to try and summarize
13	Mr. Buchner's opinions. I'm here to discuss my my
14	report and my opinions.
15	Q. Well, do you know if he has any criticisms
16	of the weight ratio of the Escape in the crash test?
17	A. I don't know. There's an awful lot of
18	dialogue about the weights. I'm aware of that. He
19	measured the the weights. I know he and
20	Mr. Grimes have some disagreement there. But, again,
21	that's I highlighted my own concerns with the way
22	the test was run and ballasted, so I would prefer to
23	discuss that.
24	Q. Are you aware that the HVE software that
25	Mr. Buchner used to run his simulations did not allow

	Page 15
1	him to ballast the Escape, as you suggest should have
2	occurred in the actual crash testing in this case?
3	MS. CANNELLA: Objection.
4	THE WITNESS: I don't
5	MS. CANNELLA: It's not sorry, Chris.
6	Objection, foundation. And I believe I'll just do
7	the form objection.
8	BY MR. HILL:
9	Q. You can go ahead and answer, if you can.
L O	A. Yeah, I I didn't run any HVE simulation
11	as part of my work in this particular case, and I
12	will defer to Mr. Buchner regarding the work he's
13	done.
L 4	Q. All right. You're familiar with HVE
15	simulation software, correct?
16	A. HVE software is not a software package
L 7	that I at Robson Forensic currently utilize.
18	Q. Have you ever util utilized it?
19	A. No, I haven't to date used HVE software.
20	Q. All right. You make reference in your
21	report with regard to the ballasting of the Escape of
22	industry standards for ballasting vehicles. Can you
23	state any source that you have for an industry
24	standard for ballasting a vehicle for a crash test in
25	a litigation context?

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Page 16

A. Well, the industry standards I am referring to relate to industry crash tests. For example, I reference FMVSS 301. So there are procedures, there are very well-documented procedures for 301, and that's what I'm referencing against.

In this particular crash test that was performed, you know, the stated objective was to match the weights of the subject crash. So I'm commenting on whether that is a fair statement, whether it -- it does represent or not, and that's really what I'm commenting on.

- Q. Other than the procedures for FMVSS 301, are there any other standards that you claim apply to ballasting of a test vehicle in a -- in a forensic or litigation context?
- A. Well, there are -- there are many FMVSSs.

 There are many tests standards. There's IIHS,

 there's other -- other standards around the world.

 Those are the standards that are used to certify or

 evaluate vehicle performance. As -- it's in that

 instance I'm referring to industry practice.

So, for the -- for example, the use of Stoddard solvent. So if you're trying to represent the fuel weight, Stoddard solvent is a good solution for that. So the weight is placed in the correct

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	Page 17
1	location. So that's really what I'm discussing in my
2	report.
3	Q. What is the FMVSS 301 test? What does
4	that relate to? What is that for?
5	A. 301 relates to fuel system integrity.
6	Q. Right. And it's a FMVSS is the Federal
7	Motor Vehicle Safety Standards, so it's a compliance
8	test. You'd agree with that, correct?
9	A. I would agree with that, yes.
LO	Q. All right. Speaking of the Stoddard
11	solvent. Do you agree that Mr. Crosby and Mr. Grimes
12	used the published curb weight of the Escape as a
13	starting point for their ballasting of the test
L 4	Escape?
15	A. Uhm, I would I would say I've reviewed
16	what they supplied, in terms of the capacity of the
L 7	weight and the document related to the test weight,
18	and I've compared those two. And I can see some
19	aspects of how they I know what they claim the
20	test weight was.
21	No photographs were provided of the
22	vehicle in the test weight condition on a scale, for
23	example. And I can see that there are certain items
24	that were fitted to the test vehicle, where the
25	weight wasn't provided.

	Page 18
1	So really that's that's what I've
2	assessed is the comparison of the documents they
3	provided, in terms of the weight and the weight
4	distribution.
5	Q. Yeah, I understand that. But my question
6	was, did they use the published curb weight of the
7	Escape, as their starting point in ballasting the
8	test Escape?
9	A. I at this time, I don't recall the
10	foundation of of their starting weight. I know
11	I know what they reported the weight they're
12	attempting to get to. I was really more interested
13	in how they achieved that by the distribution of the
14	ballast.
15	Q. Assuming that they did use the published
16	curb weight of the Escape as a starting point, do you
17	agree that the weight of the fuel is already
18	represented in the published curb weight of the
19	vehicle?
20	MS. CANNELLA: Objection to the form of
21	the question. Confusing.
22	BY MR. HILL:
23	Q. Answer, if you can.
24	A. So, you know, Mr. Grimes' assertion was
25	that he was trying to match the weight condition of

	Page 19
1	the subject vehicle. So what I know from reviewing
2	the test is that the crash test was conducted with an
3	empty fuel system. And we know that the subject
4	vehicle had fuel in its system. And, therefore, the
5	weight is not in the correct location. The fuel
6	weight is going to be applied to the vehicle in a
7	different location than the fuel tank.
8	Q. Do you know how much fuel was in the
9	subject vehicle, at the time of the incident?
10	A. Not off the top of my head.
11	Q. Do you know was whether Mr. Buchner
12	accounted for any weight of the fuel in his
13	simulation?
14	MS. CANNELLA: Objection to the form.
15	(Cross-talking.)
16	THE WITNESS: I don't know what to say. I
17	will defer.
18	BY MR. HILL:
19	Q. Okay. Simple question and I got
20	criticized for calling it a simple question in the
21	last deposition, so maybe I shouldn't use that term.
22	But do you agree that the published curb
23	weight of a vehicle includes the weight of a
24	fuel of a full tank of gas?
25	A. I know that some manufacturers view it

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	Page 20
1	that way, but I can't say that every manufacturer
2	does.
3	Q. Do you know whether that is true for a
4	Ford Escape?
5	A. No, I didn't evaluate Ford's particular
6	published data.
7	Q. So as we sit here today, you're not aware
8	as to whether the published curb weight by Ford for
9	the Ford Escape involved in this crash included
L O	weight for fuel?
11	A. No, I do not.
12	Q. Okay. Can you please state any industry
13	standard or federal standard that you know that
L 4	applies to ballasting a vehicle to act to the
15	condition, when no test dummies are used in a crash?
16	MS. CANNELLA: Can you say that again?
L 7	I'm sorry.
18	MR. HILL: The court reporter can read it
19	back, yes.
20	(The foregoing question was read back by
21	the court reporter.)
22	MS. CANNELLA: Object to the form of the
23	question. It's confusing.
24	BY MR. HILL:
25	Q. Go ahead.

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	Page 21
1	A. So, that's a very broad question. There
2	are a lot of test procedures and standards out there
3	between FMVSS, the NCAP program, IIHS testing. Uhm,
4	I am for most dynamic forward-vehicle crash
5	testing, occupants are, as to the test procedure,
6	where as they are typically designed to assess
7	occupant injuries. So
8	Again, I have you know, I haven't
9	considered that question. There's a lot of tests out
10	there that may well be an instance, but as I sit here
11	today I cannot give you one.
12	Q. Do you have any support for the
13	application of the procedures used in NCAP or FMVSS
14	compliance testing to forensic testing in the
15	litigation context?
16	A. I think there's a great deal of
17	MS. CANNELLA: Object, because that calls
18	for a legal legal conclusion, legal opinion,
19	foundation.
20	BY MR. HILL:
21	Q. Go ahead and answer, if you can.
22	A. I think there's a great deal of testing
23	conducted in industry to FMVSS and other
24	nonregulatory test modes. And that amount of
25	testing, there are a lot of resources. And so there

	Page 22
1	is the money available to help develop the right
2	types of procedures, methodologies, instrumentation,
3	so on and so forth, that the reconstruction crash
4	world or crash testing environment can utilize.
5	Q. Just so I make sure I understand this.
6	You've listed the FMVSS testing standards, NCAP, and
7	the IIHS testing as resources or sources for industry
8	standards related to crash testing.
9	My question is, did all of the impact
10	testing that you've cited to in your multiple reports
11	follow each of those three testing standards?
12	MS. CANNELLA: Object to the form of the
13	question. Which impacts testing are you talking
14	about? Defendant's
15	MR. HILL: All of them.
16	MS. CANNELLA: impact testing?
17	MR. HILL: No, he cited to multiple and
18	I don't want to go back and pull out every each
19	individual one. But my question is, he is should
20	be familiar with the testing done in relation to, you
21	know, the NHTSA testing he's referred to,
22	the there's testing actually in this June 14th
23	report that he references regarding NHTSA's
24	compat compatibility testing in 2007.
25	Does he know whether the testing of that

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	Page 23
1	sort that he's referred to, whether those tests
2	complied with these industry standards that he's
3	referenced?
4	MS. CANNELLA: Objection, a compound
5	question and unclear.
6	BY MR. HILL:
7	Q. Go ahead.
8	A. So, specific to the compatibility testing,
9	those were research tests that were conducted to try
10	and evaluate the performance of vehicles, where there
11	is a lack of compatibility in terms of vertical
12	alignment. Uhm, so those were attempting to
13	replicate, to some degree, field crashes and and
14	field data that was available.
15	Q. Do you know whether that test complied
16	with the FMVSS, NCAP, and/or IIHS procedures?
17	MS. CANNELLA: Object to the form of the
18	question. The specific procedures you're asking
19	about is unclear
20	MR. HILL: Go ahead.
21	MS. CANNELLA: as to the different
22	tests.
23	BY MR. HILL:
24	Q. Go ahead.
25	A. Yeah, the the procedures I'm citing,

	Page 24
1	obviously they're not very specific to certain types
2	of crash tests. So the compatibility tests are
3	designed for a different purpose. There is
4	commonality, in terms of the test setup, but they are
5	not the same tests. So, of course, they differ.
6	Q. So the question is, they differ, you say,
7	because they're not the same tests. And, therefore,
8	they did not comply with the FMVSS, NCAP, or IIHS
9	procedures you referenced, correct?
10	MS. CANNELLA: Object to the form of the
11	question, misstates his testimony. The procedures is
12	unclear what you're talking about. You're
13	compounding multiple things.
14	MR. HILL: Go ahead. We've only got three
15	hours because he's limited the deposition, so I'm
16	trying to
17	MS. CANNELLA: I I understand, but
18	asking
19	MR. HILL: Go ahead.
20	MS. CANNELLA: questions that are
21	designed to get him to give a sound byte on something
22	that isn't clear is not a fair question.
23	MR. HILL: I think it's perfectly clear.
24	MS. CANNELLA: Not clear
25	MR. HILL: I'm using I'm referencing

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	Page 25
1	the very procedures that he's cited to, so he
2	should
3	MS. CANNELLA: Mr
4	MR. HILL: know what I mean by
5	procedures.
6	MS. CANNELLA: Mr. Hill, there's pages and
7	pages and pages of procedures in those testing
8	reports. So if you have specific questions about
9	procedures, then please ask him about the specific
10	procedure you're talking about.
11	BY MR. HILL:
12	Q. Go ahead and answer the question, if you
13	can.
14	A. So in my report, I obviously understand
15	that the crash test that was conducted was attempting
16	to try and replicate this subject crash. And,
17	therefore, obviously it is not going to conform to
18	any one of the standard industry tests, because this
19	is a very specific crash. It's a real world crash.
20	And this Exponent test was attempting to replicate it
21	in some fashion.
22	My reference here relates to the
23	differences in the specific test setup that are both
24	inconsistent with the subject crash, nor consistent
25	with other procedures I'm aware of that are used

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within industry for crash testing.

Q. Okay. So he was ab- -- able to answer the question.

Do you know whether the weight of the equipment that was placed into the test Escape was calculated into the ballasting of the test Escape?

- A. I'm -- well, based on the documentation that was provided, it was hard to understand the exact weight of the instrumentation and the exact location of the instrumentation. Uhm, but I have -- given that there was a target test weight, I am taking it on good faith that that was included, and so the test weight reflects the weight of those individual test pieces of equipment.
- Q. And if individual pieces of that test equipment was placed in the front axle position of the vehicle, would you agree that it would be improper to ballast the weight of the front passengers, specific to their actual weight, because you then would not be accounting for the weight of the equipment?

MS. CANNELLA: Object to the form of the question. Foundation, incomplete hypothetical, misrepresents the evidence that's been presented in the case.

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	Page 27
1	BY MR. HILL:
2	Q. Go ahead.
3	A. So, I didn't see any evidence or
4	ballasting on the front axle, therefore, there's no
5	point related to that because no no documentation,
6	photographs or or explanation of that was
7	provided.
8	Q. You're aware that there was ballasting in
9	the front two seats, correct?
10	A. Yes.
11	Q. Okay. Do you know whether the ballasting
12	of the test Escape increased the crush or intrusion
13	that occurred in the test?
14	A. What I know is that and as I state in
15	my report 83 percent of the ballast was located in
16	the second row area, which is behind the center of
17	gravity of the Ford Escape. And that
18	significantly is significantly different to the
19	weight of the occupant and cargo in the second row in
20	the subject crash.
21	Q. Do you know whether this difference
22	between the weight in the subject crash and the crash
23	test, resulted in any increased crush or intrusion in
24	the test?
25	A. I'm not saying one way or the other, if

	Page 28
1	that's the case. I'm simply saying that the
2	ballasted weight doesn't conform to the subject
3	crash, which is not consistent with the stated aim of
4	the crash test.
5	Q. Have you quantified the impact of this
6	difference in ballasting between the subject crash
7	and the test crash?
8	A. No, I've I've not attempted to quantify
9	that.
10	Q. Have you done any testing to determine the
11	impact of the ballasting issue, as you've described
12	on the test?
13	A. No, I have not conducted any testing
14	related to that.
15	Q. Have you performed any calculations
16	related to that issue?
17	A. I've not performed calculations either
18	Q. Have you
19	A as to that issue.
20	Q. Sorry, I thought you were finished. I
21	apologize.
22	Have you run any simulations to determine
23	the impact of the difference in the weight ballasting
24	between the crash test and subject crash?
25	A. I've not conducted simulations as part of

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1	my work in this case.
2	Q. Do you agree that the axle weight between
3	the test crash and the subject crash were within
4	appropriate limits, in order to perform an
5	appropriate crash test?
6	MS. CANNELLA: Object to the form of the
7	question. It's vague. Appropriate's not defined.
8	BY MR. HILL:
9	Q. Go ahead.
10	A. Uhm, I haven't seen any of the defense
11	experts state what they believe the axle weights were
12	on the subject vehicle at the time of the crash. I
13	can see from their own report that the ax rear
14	axle weight increased relative to the original test
15	that the original vehicle's weight pretest as
16	delivered.
17	And it increased, I think, off the top of
18	my head, somewhere around 3 percent, which is
19	obviously consistent with applying most of the
20	ballast behind the center of gravity.
21	That's that's my view on the ballasting.
22	Q. Okay. Any other opinions regarding the
23	ballasting of the test Escape that we haven't
24	discussed?
25	A. Oh, that the ballasting was

			Page 30
unrer	resen	tative of the subject crash.	
	Q.	Right. Instead of that you h	nave on
that	that v	we haven't discussed?	
	Α.	Not at this time.	

All right. Great. I'll turn next to the Ο. issue of overlap or offset. Not sure which term you prefer, so if I misuse them, please let me know.

But I believe your report concludes that there was an additional offset by at least four inches in the crash test. And so I'd like to know how did you conclude that the offset in the test was at least four inches different from the subject crash?

I'm saying that the offset was at Α. least an additional four inches. I know the test was set up to try and achieve an offset of around 10.8 inches. I looked at the damage pattern and compared the damage pattern of both the crash test vehicle and the subject crash vehicle, as well as studying the -the high-speed video and still images that were available.

And the four inches is based on the fact that the sheet metal of the liftgate, outboard of the flipper glass, is induced damage in the crash test. And the four inches comes from the width of that

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	Page 31
1	sheet metal. In the in the subject crash we can
2	see that there's direct contact damage in that
3	in in that area of the liftgate.
4	Q. And just so I understand that, that you
5	your report says, "Based upon the deformation pattern
6	of the liftgate and the width of the structure." So
7	I think that's what you were just talking about. The
8	width
9	A. Yes.
L O	Q that the structure you referred to is
11	what? Just so I know
12	A. It
13	Q for sure.
L 4	A. Yes, it it is maybe a picture would
15	help.
16	Q. I'll stop sharing so you can share your
L 7	screen. I didn't realize I
18	A. Well, I'll
19	Q was still sharing.
20	A. I'm referring you to Image 2 of my report.
21	Q. All right.
22	A. So in Image 2, there are two dashed red
23	overall circular shapes, and that's the area of the
24	liftgate that I'm identifying, as comparing on the
25	left in the crash test, induced damage on the right

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1	subject crash with direct contact damage. And so
2	that measurement of four inches is the width of the
3	sheet metal to the right of the flipper glass.
4	Q. The last part is what I didn't understand.
5	And I put up the I think you can see my screen
6	the photo the image you're referring to.
7	A. Yes.
8	Q. And when you say the width, the very last
9	thing you said, are you talking about the width from
10	the where I'm pointing to here, the glass to the
11	edge of the vehicle? What exactly are you
12	referencing, when you say the width of that
13	structure?
14	A. Yes. I I in some of my work
15	product, you'll see there's an actual measurement
16	taken from the exemplar scan data. So I measured the
17	width of the liftgate sheet metal towards the base of
18	this structure, but that's above that lower edge of
19	the lift glass the liftgate through the flipper
20	glass.
21	Q. All right. In the subject crash, just so
22	I understand this, the there was an offset in the

- subject crash. Do you know what that offset was?
- I know that Mr. Grimes reported it at around 10.8 inches.

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	Page 33
1	Q. And do you agree with that determination
2	of the offset in the subject crash? Excuse me.
3	A. Uhm, I haven't personally analyzed that,
4	but I I I understand his methodology and it
5	seems a reasonable approach for his particular crash
6	test setup.
7	Q. And what was his methodology in
8	termining in determining the offset of the subject
9	crash?
10	A. He com he compared the point cloud
11	data of both of the two vehicles in a in a
12	crash position, when he overlaid the two point clouds
13	of the subject Escape and subject F250.
14	Q. And so you haven't done I'm sorry. I
15	thought you were finished. I apologize.
16	A. Well, he just compared the lines of both
17	cloud data, but that was just to conclude his
18	methodology.
19	Q. And that's your understanding of his
20	methodology?
21	A. That's right.
22	Q. Okay. And you haven't undertaken to make
23	that type of determination or, you know, used any
24	type of scientific methodology to determine the
25	offset in the subject crash?

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A. So, I'm not -- my responsibility in this case is not reconstruction. So Mr. Buchner's responsibility is reconstruction. So I'm not trying to duplicate what Mr. Buchner is doing.

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What -- what I'm trying to highlight here is that clearly, simply from a damage pattern analysis of the two vehicles, the crash test and the subject vehicle, we can see that the damage pattern is inconsistent between the two.

Now, obviously there is a vertical height difference, which I have accounted for. And I'm -- I'm going off what the stated aim of the test was, which was to match the offset, which Mr. Grimes asserts is 10.8 inches, about 10.8 inches. And whether or not he achieved that, that's what I'm opining on here.

- Q. All right. Now, I'm a little confused. You've referenced both Mr. Grimes and Mr. Buchner with regard to their analysis of the offset and the subject crash. Which of the two experts' work are you relying upon with regard to that issue?
- A. Uhm, okay. I understand that may be a little confusing response. So in this case, I have a specific focus as directed by Ms. Cannella that is not crash reconstruction. So I have not attempted,

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during the course of my work on this case, to do reconstruction. I'm aware that there is a crash reconstructionist for the plaintiff's side.

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But when I compared these images and the stated objective of the crash test and what

Mr. Grimes was attempting to do, it was apparent to me that he didn't achieve the offset he set out to achieve. I'm not trying to reconstruct the subject crash. I'm not trying to reconstruct his crash test.

I'm simply observing that the offset didn't achieve the pretest objective.

- Q. Okay. And other than looking at the photographs in Image 2 or any other photographs you might have referenced, is there any other evidence or information that you relied upon in concluding that the offset was at least four inches different from the subject crash?
- A. Well, it's a combination of looking at the photographs and some of the films available. So there is -- there is high-speed film available of the crash test, and you can look at the alignment of the hood to the Escape during that high-speed film. So that's what I've used for the basis of that opinion.
- Q. So the -- I'm assuming you're referring to the overhead view, high-speed film of the crash test?

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1	A. Correct.
2	Q. And how did you use that to form your
3	opinion that the offset was at least four inches
4	different from the subject crash?
5	A. No, that wasn't what I used to determine
6	the four inches. I've just described the method I
7	used to determine the four inches. But you can kind
8	of get a sense from reviewing the film of the loading
9	of that part of the of the liftgate.
10	Q. In the subject crash, did any portion of
11	the F-250 impact the right side of the subject Escape
12	to the right of the window of the hatch? I'm trying
13	to understand that opinion. So, I'm referencing your
14	Image 2 and the area that you've circled with the
15	dotted circle.
16	Are you saying that that portion of the
17	subject Escape was impacted directly by the subject
18	F-250?
19	A. I'm saying that that area in the circle is
20	consistent with direct contact damage.
21	Q. Okay. So you believe that the area in the
22	circle on the subject Escape and Image 2 is evidence
23	of direct impact from the F-250? Just trying to make
24	sure that's clear.
25	A. Yes.

	Page 37
1	Q. Okay. And the circled area for the test
2	crash Escape, your opinion is that in that area there
3	was no direct impact by the test F-250?
4	A. That's right. I'm saying that's induced
5	damage.
6	Q. Okay. And other than looking at these
7	photographs, can you tell tell me, you know, the
8	basis for that opinion?
9	A. Just described the basis for that opinion.
10	I just walked you through that process.
11	Q. Right. I'm just saying, so it's the
12	visual representation of the damage to the vehicles
13	that you're relying upon for that conclusion?
14	A. It's the damage pattern analysis, combined
15	with measuring an exemplar Ford Escape, yes.
16	Q. And just to be clear, what did you measure
17	on the exemplar Ford Escape?
18	A. I measured
19	MS. CANNELLA: Objection, asked and
20	answered.
21	BY MR. HILL:
22	Q. Go ahead.
23	A. I measured the width of the sheet metal to
24	the right of the flipper glass.
25	Q. And that's from the edge of the flipper

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1	glass to the edge of the vehicle; is that correct?
2	A. It's to the rear-facing surface of the
3	liftgate.
4	Q. Okay. Do you know if the difference in
5	the offset or overlap, whichever term you prefer,
6	that occurred in the crash test had any impact on the
7	level of crush or intrusion seen in the crash test?
8	A. So in my experience, uhm, you have what
9	we've discussed at great length, physical alignment.
10	You also have lateral alignment between structures.
11	So in the instance where there is less lateral
12	alignment, so less overlap or more offset, the forces
13	are concentrated on a smaller part of the the
14	struct the structure.
15	Q. With the forces being applied to a smaller
16	part of the structure, have you determined how much
17	those greater forces increased intrusion or crush in
18	the crash test?
19	A. No. My opinion is that, again, if the
20	objective of the crash test was to replicate the
21	subject crash, this is another instance where it
22	hasn't been replicated.
23	Q. Have you done any work to determine
24	whether this example of where the test crash did not
25	replicate the subject crash had any impact to on

	Page 39
1	the crash test?
2	MS. CANNELLA: Object to the form of the
3	question. Vague.
4	BY MR. HILL:
5	Q. Go ahead.
6	A. In terms of do you mean in terms of
7	quantifying intrusion levels?
8	Q. That's right. Correct.
9	A. No, I haven't tried to quantify difference
10	in intrusion levels, other than looking at the
11	survival space in the second
12	THE REPORTER: The what space? I'm sorry.
13	THE WITNESS: Survival space.
14	THE REPORTER: Thank you.
15	MS. CANNELLA: In the second row.
16	THE WITNESS: Right.
17	MS. CANNELLA: I just want to finish it
18	for her.
19	THE WITNESS: In the second row.
20	MS. CANNELLA: Yes.
21	BY MR. HILL:
22	Q. Analyzing the survival space in the second
23	row between the subject crash and the crash test
24	gives you an analysis comparing the crash test to the
25	subject test.

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1	But my question is, have you done anything
2	to quantify how the crash test would have been
3	different, if the offset or overlap matched the
4	subject crash?
5	A. The purpose of my analysis was to really
6	understand how representative the crash test is to
7	the subject crash. That's that's, uh that was
8	what I my objective and that's why I've written
9	this report and formed the opinions I've had I
10	I have.
11	Q. All right. Well, have you done any
12	testing to determine the impact of the difference in
13	offset on the results of the crash test?
14	MS. CANNELLA: Asked and answered.
15	BY MR. HILL:
16	Q. Go ahead.
17	A. No, I haven't. I've simply identified the
18	discrepancy between the crash test that was performed
19	and the subject crash.
20	MR. HILL: We've been going about an hour,
21	let's take a quick break. I need
22	MS. CANNELLA: Okay.
23	MR. HILL: to use the restroom. I'll
24	be back fast.
25	THE VIDEOGRAPHER: Off the record 10:06.

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1	(Recess was taken from 10:06 a.m. to
2	10:13 a.m.)
3	THE VIDEOGRAPHER: Back on the record.
4	The time 10:13.
5	BY MR. HILL:
6	Q. Let's say that the crash test well, let
7	me back up. Scratch that.
8	When you testified that there was at least
9	a four-inch difference in the offset, are you
10	referencing the 10.8 offset calculated by Mr. Grimes
11	or the 12-inch offset originally tested to
12	testified to by
13	MS. CANNELLA: Hey, guys
14	MR. HILL: by Mr. Buchner.
15	MS. CANNELLA: sorry. I wasn't in the
16	room. Can you can y'all check for me before you
17	get started next time?
18	MR. HILL: Oh, yeah. I thought you said
19	you were ready. I I apologize.
20	MS. CANNELLA: No.
21	MR. HILL: Somebody said they were
22	MS. CANNELLA: I'm here.
23	MR. HILL: ready. I thought it was
24	you.
25	MS. CANNELLA: No.

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1	MR. HILL: Yeah, I was trying to sneak in
2	a question there before you got back. Sorry.
3	MS. CANNELLA: That's okay.
4	MR. HILL: Are you are you ready now?
5	Sorry about that.
6	MS. CANNELLA: I'm ready, don't worry.
7	Yeah, I'll turn on my camera so you can see me.
8	MR. HILL: All right. Sure. Sorry. I'll
9	reask the question.
10	MS. CANNELLA: Thanks.
11	BY MR. HILL:
12	Q. Uhm, the four-inch offset that you
13	testified about, Mr. Roche, is that relative to the
14	10.8 offset determined by by Mr. Grimes or the
15	12-inch offset that Mr. Buchner testified to,
16	originally
17	MS. CANNELLA: Object to
18	MR. HILL: just so we're
19	MS. CANNELLA: the form of the
20	question.
21	MR. HILL: just so we're clear.
22	MS. CANNELLA: Object to the form of the
23	question. Misstates Mr. Buchner's opinion.
24	BY MR. HILL:
25	Q. Go ahead.

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- A. Yeah, my -- my reference here is related to Mr. Grimes' 10.8 inches.
- Q. Okay. And so your testimony, just to be clear, is that the offset is at least four inches from 10.8?
- A. Yeah. My testimony is that in the crash test we can see induced damage in the liftgate in the area that we discussed. There's -- there's contact damage in the subject crash and that width is four inches.
- Q. Okay. Great. Have you done any work at all to determine how the crash test would have been different, if the offset in the crash test would have been exactly 10.8?
- A. So my report really, as I mentioned earlier, is trying to identify how representative the crash test is to the subject crash and -- and what, if any, conclusions can be drawn from it. And what I highlight throughout the report -- and I know you're working through it, we're not there yet -- is there are multiple instances where the crash test isn't representative and there are multiple variables that have been changed between the subject crash and the crash test. So, therefore, isolating the contribution of any one variable becomes impossible.

	Page 44
1	So how Mr. Grimes reaches his conclusion
2	based on the crash test is is really what I'm
3	forming an opinion about, which is later in my
4	report.
5	Q. I'll ask it again. Have you done any work
6	to determine whether a crash test that hit the exact
7	10.8 offset, how the results would differ from the
8	actual crash test?
9	MS. CANNELLA: Object to the form of the
10	question. Number one, no one has testified that
11	or the witness has not testified that the offset was
12	exactly 10.8. He explained what the four inches
13	meant. Two, asked and answered.
14	BY MR. HILL:
15	Q. Go ahead.
16	A. So, again, my objective was to understand
17	the relevancy and the representativeness of this
18	crash test to the subject crash and what we can draw
19	from it, if anything, based on how it's conducted.
20	And so my goal was to identify or I have just
21	reported areas of discrepancy.
22	In terms of understanding the contribution
23	of each of the discrepancies, I would think that the
24	onus would fall on the people who ran the crash test,
25	not not myself.

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Q. So you have not reached any conclusions or done any work to formulate those conclusions based upon the discrepancies in the crash test?

MS. CANNELLA: Object to the form of the question. It's confusing. And to the extent you're asking if he was able to isolate the effect of the misrepresentativeness of the Exponent crash test, he has already stated his answer to that question.

THE WITNESS: What I'm saying is, there's too many variables changed between the subject and the crash test, so you can't draw meaningful conclusions because it's unrepresentative.

BY MR. HILL:

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- Q. You cannot contra- -- draw meaningful conclusions about what?
- A. So, Mr. Grimes draws meaningful conclusions from his crash test, right? So, for example -- and I quote from page 11 of my report -- "The difference in the seat deformation in both Escapes is probably due to the lack of cargo in the rear cargo area of the test Escape."

I -- what I'm saying in my report is, you can't make that determination because he's not accounting for the other discrepancies, the other differences that he's introduced in the crash test

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1	relative to the subject crash.
2	Q. All right. Well, we haven't even broached
3	that subject yet, and so I'm not talking about that
4	subject. I'm talking about your work and your
5	conclusions. And you just said you couldn't draw
6	conclusions, based upon the discrepancies. And I
7	asked you conclusions about what. And what what
8	do you mean, other than your conclusion that
9	Mr. Grimes' cargo hypothesis is not, you know, backed
10	by a scientific methodology? I understand that
11	conclusion.
12	What other conclusions were you
13	referencing that you can't make, based upon the crash
14	test?
15	MS. CANNELLA: Object to the form of the
16	question. It's, uhm sounds to me like you're
17	suggesting that you're saying he can't conclude
18	something, when the testimony is that no one can
19	conclude something. And so
20	MR. HILL: Well, these speaking objections
21	are getting outrageous, Tedra. Just object to the
22	form of the question. And if he can't answer it, he
23	can't answer.
24	MS. CANNELLA: Mr. Hill
25	MR. HILL: You're only allowed to object

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1	to the form of the question. You're not allowed to
2	go into a long diatribe speaking instructing the
3	witness about the problems with the question in your
4	mind.
5	MS. CANNELLA: Mr. Hill, I am allowed to
6	try to make an objection that allows you to correct
7	it. And to the extent you're trying to
8	mischaracterize what he said, I absolutely am allowed
9	to address that. You said
L 0	MR. HILL: Go ahead
11	MS. CANNELLA: that he can't draw
12	conclusions and his report and his testimony is that
13	no one can draw conclusions. That's that's
L 4	misleading.
15	MR. HILL: That that includes him. And
16	that's what he was talking about. I was asking him
L 7	about his conclusions. And I was clarifying his
18	answer to the last question, where he said that you
19	can't draw conclusions. And I was asking what
20	conclusions is he not able to draw from it. That was
21	the basis of the question.
22	BY MR. HILL:
23	Q. So answer, please, if you can.
24	A. So the state so it wasn't my crash
25	test, but according to Mr. Grimes the purpose of the

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1	test was to explore what type of intrusion would
2	occur without the lift kit on the vehicle.
3	So the point I'm making is that with all
4	these differences, all these variables that have
5	changed between his crash test and the subject crash,
6	you're not going to be able to isolate how that one
7	variable, the lift kit, the right height can make.
8	Q. Well, one of the variables between the
9	crash test and the subject crash was the color of the
10	vehicles. That's a variable that existed between the
11	subject crash and the test crash. But we can
12	conclude that the color the vehicles are painted had
13	no relevance to the results of the crash test,
L 4	correct?
15	A. Yeah, the color is not a significant
16	variable in this instance.
L 7	Q. Right. And what did you do to determine
18	whether any of the variables you've mentioned are
19	significant to the crash test?
20	A. So, what I'm doing is identifying the
21	the differences, how additional variables have been
22	changed, and reporting based on the available
23	materials, what those differences are.

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And from experience, I know that those

We know that the amount

variables are significant.

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	Page 49
1	of overlap in a crash test is significant. There's a
2	great deal of published test data, research that
3	quantifies how overlap influences intrusions and
4	occupant injuries.
5	We also know that weight from, you know,
6	basic physics, basic scientific principles can
7	influence vehicle motion, the dynamics of the
8	vehicle, based on where that weight is placed
9	relative to the center of gravity.
10	So these are you know, the the test
11	was set up to run apparently in a way that was
12	replicated the subject crash. But yet I'm pointing
13	out all the ways that it didn't.
14	Q. Have you done any work to quantify the
15	impact of either the offset or the weight issues that
16	you just mentioned?
17	MS. CANNELLA: Objection, asked and
18	answered.
19	THE WITNESS: So I think if Mr. Grimes
20	wants to draw significant conclusions about the
21	influence of the lift kit on on this subject
22	crash, he needed to do that work. He needed to run
23	either additional tests or run the tests in a
24	different way that more closely replicated the
25	subject crash.

	Page 50
1	BY MR. HILL:
2	Q. Okay. Speaking of that, how would you
3	have ballasted the Ford Escape, if you were the
4	person directing the test?
5	MS. CANNELLA: Objection, foundation, I
6	guess.
7	THE WITNESS: So, I highlight later in my
8	report that we know we we know who the
9	occupants were. We can identify the weights of the
10	occupants. So, for example, the the ballasting
11	for the front row could have represented Santana,
12	Kelly and Joshua Bryson's weights.
13	We know Cohen Bryson's weight. We know
14	the car seat weight. So all of those could have been
15	represented much more accurately with ballast than
16	than was actually performed.
17	BY MR. HILL:
18	Q. And how would you do that?
19	A. So there are more ballasting methods you
20	can use. For example, for the occupants you can
21	use there are water ballast tanks that can
22	represent the human form that could be used. Or an
23	ATD could be used.
24	Q. What additional modifications you would
25	would you make to the to the test Escape with

	Page 51
1	regard to the ballasting?
2	MS. CANNELLA: Asked and answered.
3	MR. HILL: No, it's what additional.
4	He he just said he'd add weight for the passengers
5	and so forth.
6	BY MR. HILL:
7	Q. Would you do anything else?
8	A. Well, if the purpose of the test was to
9	replicate the subject crash as closely as possible
10	with only the variable off, right, then you would
11	also represent the cargo.
12	Q. And how would you represent the weight of
13	the cargo in your test?
14	A. Well, by placing the objects that were
15	clearly identified. So we know the Shop Vac, we know
16	the camping chairs. We have images from the scene
17	and subsequent inspections that that help to
18	locate that luggage in the cargo space and on the
19	second row seat.
20	So you would the approach that you
21	could take would be to match as closely as possible
22	with the available weight information the subject
23	crash and then see where where the weight
24	deficiency was. And then establish what additional
25	ballasting, if any, was necessary, including adding

	Page 52
1	fuel to the fuel tank or Stoddard solvent to the
2	to the fuel tank.
3	Q. Anything else?
4	A. Those are some examples of the process
5	that could have been followed that would have more
6	accurately represented the weight in the crash test.
7	Q. All right. With regard to the offset and
8	overlap, what would you change, if you were the
9	person directing the crash test?
10	A. So, some significant effort was made to
11	align the Escape to the guide rail. So the tolerance
12	of the guidance system for the F-250 was presumably
13	understood by the by the Exponent test engineer.
14	So that would be where I would start, is
15	understanding the accuracy and tolerance lateral
16	tolerance from the guide system to see how that
17	would how that could possibly affect the actual
18	impact offset.
19	Q. All right. And once you understood that
20	guidance process, what changes would you make to it?
21	A. I haven't been to the test site. I don't
22	know all the details in the guidance system. It's
23	not that's something, at least, beyond my ability
24	to answer at this stage.

I'm sorry. I need you to

THE REPORTER:

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	Page 53
1	repeat what you just said, sir.
2	THE WITNESS: Yeah, that's a that's a
3	question I can't answer, because I haven't sufficient
4	information on on the guidance system used, other
5	than it failed to hold the intended offset.
6	BY MR. HILL:
7	Q. Are you aware of any guidance system in
8	your experience that is able to hold a specific
9	offset?
10	A. I'm aware of partial overlap tests being
11	conducted, where there is a tolerance related to
12	those overlaps and those testing agencies are able to
13	control those overlaps for their tests.
14	Q. Do you know what the tolerance levels are
15	for those tests?
16	A. Uhm, no, I I I haven't prepared for
17	that question today. I know that they they do
18	hold tol tolerances for valid tests, but off the
19	top of my head I can't figure those.
20	Q. Do you know the tolerance level that is
21	applicable to the crash test in this case?
22	A. Well, based on my analysis of an
23	additional four inches of offset, what I can see is
24	that the error is somewhere around 36 percent. That
25	is that's a significant error relative to the

	Page 54
1	original stated objective of the offset of 10.8
2	inches of about 10.8 inches.
3	Q. What would you consider to be a an
4	appropriate tolerance for the offset in this crash
5	test?
6	A. I think, in this instance, you'd be
7	looking at trying to achieve something significantly
8	lower than 34 percent. Again, what I would
9	reference, if it was me conducting the test, would be
10	standard industry offset test procedures and the
11	acceptable tolerance that they allow to still have a
12	test that's consistent with their intended procedure.
13	And I would reference that offset. I don't have that
14	for you today, but that was what that is what I
15	would reference.
16	Q. All right. Let's talk about the parking
17	brake. If I understand, one of your opinions is that
18	the Escape's parking brake was possibly engaged in
19	the test. Were you able to read the deposition of
20	Charlie Crosby, prior to this deposition?
21	A. Uhm, I have reviewed some of it. I
22	believe he stated that the parking brake was
23	disengaged.
24	Q. Do you have any reason to dispute his
25	testimony?

	Page 55
1	A. Uhm, the process of documenting the test
2	with the photographs showing engagement and then
3	disengaging it seems unusual to me. In the sense
4	that if you're trying to run a test with parking
5	brake disengaged, why would you engage it at all and
6	run the possibility that someone forgets to disengage
7	it?
8	Q. Do you have any evidence that the parking
9	brake was engaged, other than the photograph
10	Mr. Crosby took prior to the test?
11	A. No, that's the evidence I'm utilizing to
12	say it's possibly engaged during the test.
13	Q. How would the parking brake, if it was
14	engaged, add resistance to forward motion?
15	A. Well, you have braking applied to the
16	vehicle that wasn't the case during the subject
17	crash.
18	Q. How would that manifest itself? Would
19	would the rear wheels of the Escape skid during the
20	test?
21	A. Sorry, you're asking a hypothetical
22	question I'm not sure when, in relation to what.
23	Q. Yeah, let me ask it another way. If the
24	parking brake were engaged during the test, would it
25	prevent the rear wheels of the Escape from rolling

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upon impact?

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A. So, it, uh -- it depends on the time of the duration allowed for the F-250 to strike the rear wheels. And that -- and the distance that's traveled during that period. So it would depend on the engagement of the structures. So it would be different between the -- the subject crash and crash test, because there's a full line of difference.

So there -- again, that's -- that's not a straightforward question to answer. But the point is, is that, again, if the parking brake was engaged, it is inconsistent with the subject crash.

- Q. Yeah, my question was just about the crash test, not about the subject crash. Because we -- we don't believe the subject crash -- the parking brake was not engaged, at the time of the subject crash, correct?
 - A. That's my understanding.
- Q. Right. So I'm just asking about the crash test, all right? And the question is, in the crash test, if the parking brake had been engaged, would it prevent the rear wheels of the test Escape from rolling upon impact?
- A. It's, uhm -- it certainly could influence either the rolling or the rate of rolling.

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	Page 57
1	Q. And how would it influence it?
2	A. Well, you have braking applied to the rear
3	axle versus in a disengaged state no braking.
4	Q. So would the parking brake prevent the
5	rear wheels of the Escape from rolling upon impact?
б	A. I think I've just answered your question.
7	Q. Well
8	A. You need
9	Q. Go ahead.
10	A. So they would either affect either
11	prevent rolling or change the rolling rate
12	Q. I
13	A or the resistance to rolling.
14	Q. And how would they change the rolling
15	rate?
16	A. You now have additional braking affect on
17	the rear wheels. So the force to push a vehicle with
18	braking versus without braking is is different.
19	Q. Have you done anything to determine how
20	the parking brake being engaged would have changed
21	the rolling rate of the rear wheels in the crash
22	test?
23	A. So, as I've stated previously, my
24	objective was to highlight inconsistencies between a
25	crash test and the subject crash. This is

	Page 58
1	potentially another one.
2	Q. So the answer is no, you haven't done
3	anything to determine what the change in the rolling
4	rate would be of the rear wheels in the test, if the
5	parking brake had been engaged?
6	MS. CANNELLA: Object to the form of the
7	question. Misstates the testimony.
8	BY MR. HILL:
9	Q. Go ahead.
10	A. The the emphasis is on the test
11	engineer to ensure that the stated objective is
12	satisfied. My my objective in in looking at
13	the test data and writing this report wasn't to try
14	and determine the difference of all of these
15	variables. That is it's certainly beyond the
16	scope of work. And the point simply is that that is
17	another potential difference between the crash test
18	and the subject crash.
19	Q. Have you performed any calculations to
20	determine how this difference between the subject
21	crash and the test crash would have impacted the test
22	crash?
23	A. Sorry, I didn't follow that question. Can
24	you repeat it, please?

You just pointed out that another

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Q.

Sure.

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potential difference between the subject crash and the test crash is the potential for the parking gate (sic) to be -- having been engaged during the test crash.

Have you performed any simulations, calculations, analysis or testing to determine the impact of this difference between the test crash and the subject crash on the test crash?

A. I believe I already provided that answer, but it's not -- in forming the opinions I have in this report, I am trying to understand the veracity, accuracy of the crash test and whether or not meaningful conclusions can be drawn compared to the subject crash.

I'm not trying to isolate and identify the contribution or the differences in all of these variables. That -- that is something that should have been considered, when performing the crash test and making sure that only one variable was being changed during the crash test.

Q. So can we agree the answer is no, you've not performed any testing, calculations, simulation or analysis to determine the impact of the parking brake on the level of crush or intrusion that occurred in the test?

	Page 60
1	MS. CANNELLA: Object to the form of the
2	question. He just described his analysis.
3	BY MR. HILL:
4	Q. Go ahead.
5	MS. CANNELLA: Misstates his testimony.
6	THE REPORTER: I'm sorry, what was the
7	last part of your objection, Ms. Cannella?
8	MS. CANNELLA: Misstates his testimony.
9	BY MR. HILL:
LO	Q. Go ahead.
11	A. Yeah, the the opinion is is that if
12	the parking brake was engaged during the crash test,
13	that is inconsistent with the subject crash.
14	Q. I'm going to move to strike as
15	unresponsive.
16	Let me ask it this way. Please describe
L 7	for me all testing, calculations or simulations that
18	you have done in connection with your analysis of the
19	crash test.
20	A. So, I've described my observations, my
21	opinions in the course of my report. I provided you
22	my work product. So, you're welcome to review that.
23	That's a very broad question. I'm not going to try
24	and answer that, when we can go through both my
25	report and my work product.

	Page 61
1	Q. Is it fair to say that all testing,
2	calculations, simulations, and/or analysis that
3	you've done in connection with analyzing the crash
4	test are contained within your report?
5	A. Uhm, certainly my my report contains my
6	opinions and findings of that analysis and my work
7	product and the file that you have contains any
8	associated and supported work.
9	Q. Great. Turning now to the sunroof. Do
10	you know whether the Escape used in Mr. Buchner's
11	simulation had a sunroof?
12	A. I, uhm I will defer you to Mr. Buchner
13	on that question.
14	Q. Okay. So you don't know, as we sit here
15	today, whether it did or not did not?
16	A. I have not spent a great deal of time
17	understanding the simulation that Mr. Buchner was
18	performing.
19	Q. Okay. You mentioned before that the
20	height of the crash F-250 was higher than the height
21	of the test F-250. We can agree on that, correct?
22	A. That's right. The height in the subject
23	crash was higher.
24	Q. Have you done any work to determine the
25	impact of the F-250 height difference on the roof

	Page 62
1	crush experienced in the test Escape?
2	A. I've made observations on the deformation
3	patterns of the crash test relative to the the
4	subject crash. And I'm simply stating, because maybe
5	Mr. Grimes wasn't aware, that roof structures do
6	differ, maybe more than he understands, between
7	sunroof vehicles and none sun and nonsunroof
8	vehicles.
9	Q. Have you done any work to determine the
10	impact of the height of the F-250 in the test crash
11	on the extent of the roof crush experienced by the
12	test Escape?
13	A. As compared, I think you can see it on
14	page 9 Image 9. I looked at the change in roof
15	deformation between the crash test and the exemplar
16	Escape.
17	Q. Okay.
18	A. And you can see that there is sorry,
19	the crash test and the subject crash. And you can
20	see that there's bulging in the roof in the crash
21	test.
22	Q. And this is Image 9 of your report; is
23	that correct?
24	A. That's that's right.
25	Q. And that's what I've put on the screen?

	Page 63
1	A. Correct.
2	Q. And that is a comparison between the crash
3	test and an exemplar Escape roof comparison.
4	Under I don't understand that that description
5	of the image. Can you explain that for me?
6	A. Yeah, that's an overlay of the point cloud
7	data, I think, of all three vehicles in Exemplar A,
8	the subject crash and the crash test. And the
9	what you're seeing is the surface of the roof from
10	the crash test and the bulging of the roof pattern,
11	which is not exhibited on the subject crash.
12	Q. And the exemplar Escape that you used, did
13	it have a sunroof or did it or not?
14	A. Well, the the roof height and surface
15	doesn't change significantly between the sunroof and
16	nonsunroof.
17	Q. Well, what was the purpose of adding a
18	a third vehicle to this image, the exemplar Escape?
19	I don't understand.
20	A. Simply, I compared an overlay of the scan
21	data and observed that the roof deformation on the
22	crash test was greater than in the subject crash.
23	Q. And did you do any work to determine
24	whether the height of the F-250 in the test crash was
25	a factor in the difference between the roof crush in

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the subject crash and the roof crush in the test crash?

- A. Uhm, I'm pointing out that roof structures vary between sunroof and nonsunroof vehicles. And so if you're trying to replicate the subject crash, it would be advisable to use a body structure that is the same, which has a sunroof. This crash test was conducted with a nonsunroof body and we know that sunroof structures are reinforced relative to nonsunroof structures.
- Q. Did you do any work to determine the impact of the difference in height between the test F-250 and the subject F-250 on the roof crush exhibited in the test Escape?
- A. Uhm, I'm pointing out that the roof strength and stiffness in a nonsunroof body structure is lower than with a sunroof body structure. So it's another example of the crash test not matching or being inconsistent with the subject crash.
 - Q. Move to strike as unresponsive.

I'll ask it again. Did you do any work to determine the impact of the difference in heights between the subject F-250 and the crush -- crash F-250 on the level of roof crush exhibited by the test Escape?

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	Page 65
1	MS. CANNELLA: Object to the form of the
2	question. Confusing and he's testified about this
3	already.
4	MR. HILL: He hasn't answered the
5	question. It's a yes or no question. Have you done
6	any work in that regard?
7	MS. CANNELLA: Same objections.
8	THE WITNESS: I mean, I comment on the
9	level of roof deformation between the subject crash
10	and the crash test vehicle.
11	BY MR. HILL:
12	Q. And have you determined the impact of the
13	height of the subject F-250, as compared to the test
14	crash F-250 with regard to your observations of the
15	difference in the roof crush between the test Escape
16	and the subject Escape?
17	A. So, I've highlighted the the
18	differences in the deformation pattern of the crash
19	test Escape versus the subject Escape. Again, we
20	know there's a difference in the body stiffness. In
21	terms of how it would influence the results of the
22	crash test, I've not tried to isolate one of many
23	variables that were changed.
24	Q. Great. Have you done expanding on the
25	answer you just gave. Have you done any work,

	Page 66
1	whether it be testing, calculations, simulations,
2	analysis, to isolate the variable of a sunroof versus
3	not having a sunroof on the results of the crash
4	test?
5	A. So, again, there's a an example here of
6	the way the crash test was run that is inconsistent
7	with the aims of the crash test as stated by the
8	crash engineer. And I've not attempted to understand
9	any contribution that may have arisen from that
10	variable being changed.
11	Q. Thank you. Do you know whether the lack
12	of a sunroof in the test Escape increased the crush
13	experienced by the test Escape?
14	A. I know from my experience that sunroof
15	body structures are both stiffer and stronger based
16	on prior vehicles I've worked on. And so, therefore,
17	by testing a nonsunroof Escape, you have a slightly
18	softer structure, based on the geometry of the
19	sunroof reinforcement versus the baseline roof bows.
20	Q. Have you quantified this difference?
21	A. I'm simply pointing out that there is a
22	difference and it would add yet another variable to

Q. Have you quantified the difference?

the difference in the subject crash and the crash

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test.

	Page 67
1	A. I've identified that there is additional
2	roof deformation in the crash test than the subject
3	crash. Beyond that, no.
4	Q. You say I'm sorry. Did you say beyond
5	that, no? I couldn't hear your response, I'm sorry.
6	A. That's right. I just the image you
7	have on the screen, I'm showing I quantified that
8	the roof bowed for the crash test, relative to the
9	subject crash.
10	Q. Okay. And that's the extent of your work
11	or efforts with regard to determining whether the
12	lack of a sunroof increased the crush in the test?
13	A. So my objective here was to identify
14	whether or not the crash test was run in a consistent
15	manner to the subject crash. Here is another example
16	where that wasn't the case.
17	Q. Right. That's not my question. I
18	understand that. My question was, have you done
19	anything to quantify or explain your opinion that
20	no, scratch that. I'll go back to my original
21	question.
22	Have you done anything to quantify whether
23	the lack of a suncruf sunroof increased the crush
24	in the test?

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I am simply providing the opinion that

	Page 68
1	sunroof roof structures are stiffer and stronger than
2	nonsunroof roof structures. And if you the
3	objective of the crash test was simply to isolate the
4	height difference, where everything else is being
5	matched as closely as possible, then why wasn't a
6	sunroof Escape used in the crash test?
7	MR. HILL: All right. I think it's time
8	we need to take another break. Let's go off the
9	record for about five to ten minutes.
10	THE VIDEOGRAPHER: Okay. Off the record,
11	10:51.
12	(Recess was taken from 10:51 a.m. to 11:16
13	a.m.)
14	THE VIDEOGRAPHER: Back on the record.
15	The time, 11:16.
16	BY MR. HILL:
17	Q. Mr. Roche, do you know whether vehicle
18	manufacturers are required to run separate compliance
19	tests for rear impacts for the same model vehicle,
20	comma, one with a sunroof, comma, one without?
21	A. No. In my experience, compliance tests
22	are certainly performed for roof crush and also for
23	overall body stiffness. Testing is conducted with
24	both, with and without sunroof. As to 301, I I'm
25	not sure.

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	Page 69
1	Q. Are you aware of tests beyond 301 that
2	actually require the manufacturer to perform a test
3	both with and without a sunroof?
4	A. I'm sorry. Can you just ask that
5	question, again, please?
б	Q. Sure. I believe you said you're not sure
7	if 301 requires both tests, as I've described, right?
8	A. Right.
9	Q. And you made a general reference to
10	testing with and without. And I'm saying, are you
11	aware of any other compliance test that's out there
12	that does require the manufacturer to test both a
13	sunroof model and a nonsunroof model?
14	A. And the example I gave you was roof crush,
15	which is 216A.
16	Q. 216A; is that correct?
17	A. That's right.
18	Q. And it's your understanding that the
19	manufacturer must test both the sunroof and the
20	nonsunroof model to comply with 216A?
21	A. Correct. When I was writing compliance
22	reports for Jeep for roof crush performance, we would
23	always run both configurations and submit compliance
24	reports. But I was I was not responsible for
25	compliance to 301, per se, because that's a that's

	Page 70
1	a vehicle test, not a body system test.
2	MS. CANNELLA: Can I ask a question, if
3	you're done, Mr. Roche, just on the record? Is there
4	anybody else attending the deposition by video or
5	phone or anything aside from you, Mr. Hill for
6	Defendants?
7	MR. HILL: No.
8	MS. CANNELLA: Okay. Thank you.
9	BY MR. HILL:
10	Q. While you were in the automotive industry,
11	you mentioned you were involved with compliance
12	testing. Were you ever involved in any testing
13	outside of the compliance framework?
14	A. Yeah, absolutely.
15	Q. All right. Can you just describe that for
16	me briefly, just so I understand it.
17	A. Yes. By compliance testing, I mean
18	specific to FMVSS. But there's plenty of other
19	testing that is conducted for both crashworthiness
20	and other test requirements that is that is
21	considered noncompliance or it's not that it's
22	noncompliant, it's that it's not a compliance test.
23	Q. Right. And in all of those tests that you
24	performed that relate to vehicle performance, did you
25	comply with the procedures that related to compliance

Page 71

testing?

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- A. I'm -- so, I think I understood your question correctly. When -- the way compliance testing works in the auto industry is certainly for Federal Regulations. It is a self-compliance system. For European regulations, it is not. But -- but as part of self-compliance, you have to run the tests according to the test procedure, in order to have a valid compliance report.
- Q. Right. And I -- I'm referencing
 the -- what you called, I think, noncompliance
 testing, the vehicle performance testing, testing
 that would be done by automakers, not for compliance
 purposes, but for performance purposes. You said you
 had experience with the noncompliance-type testing.
 Did I understand that correctly?
 - A. That's correct, yes.
- Q. And give me some example of the noncompliance/vehicle performance related testing that you were involved with.
- A. Yes, so better term is nonregulatory. So there's lots of tests that I was involved in that was nonregulatory tests. Meaning, that those are tests you still wanted to satisfy for a variety of reasons. An example related to crash would be NCAP, for

	Page 72
1	example. Although, NCAP is administered by NHTSA,
2	you don't have to satisfy any sort of star rating for
3	NCAP. NCAP is a consumer information test.
4	So manufacturers some of the ones I
5	would work with would run tests to see if they
6	were meeting their objectives relative to
7	nonregulatory test modes. So that when the
8	regulatory body tested their vehicle, they knew
9	they would know what sort of performance they would
10	achieve.
11	Q. Right. And NCAP stands for New Car
12	Assessment Program?
13	A. That's correct.
14	Q. All right. And are you saying it it
15	doesn't deal at all with the compliance with
16	regulatory standards?
17	A. NCAP is is a testing that goes above
18	and beyond FMVSS. So although the tests may look
19	similar, the tests aren't meant to be in some
20	instances identical. But complying with 208 and your
21	NCAP star rating are two different things.
22	Q. Right. So 208 would be a 30-mile-per-hour
23	test, where like NCAP might be a 35-mile-per-hour
24	test?
25	A. 208 is a whole host of different tests

	Page 73
1	Q. Right.
2	A it's not just one test.
3	Q. Right. But you would agree, I mean so,
4	NCAP might be performance testing that's not required
5	by regulation, but you would follow the procedure for
6	the FMVSS standard that related to that testing, is
7	that what you're saying?
8	A. No. I was just describing some
9	nonregulatory test modes from that I have been
10	involved with.
11	Q. Okay.
12	A. You know, so, uhm, maybe slightly easier
13	explanation, if you switch to IIHS, which is the same
14	thing. IIHS conducts testing on vehicles. And
15	that's entirely nonregulatory. They they perform
16	tests and they inform the public about performance of
17	the vehicles, according to their tests. And they
18	produce test protocols that are available to explain
19	to manufacturers who are interested, how they will
20	conduct their tests when they if they elect to buy
21	and test their vehicles.
22	So manufacturers typically will conduct
23	their own testing according to the IIHS test
24	standards. And they will follow, obviously, the
25	protocol that IIHS would use. And that way they can

	Page 74
1	get a good indication of whether how that vehicle
2	will perform to the IIHS test. Same applies for
3	NCAP.
4	Q. Do you know whether any IIHS procedures
5	for conducting their testing were not complied with
б	by Exponent and the tash cresh (sic) in this case?
7	A. So, these crash tests that were conducted
8	was trying to replicate the subject crash. And the
9	subject crash wasn't similar to any IIHS test that
10	I'm aware of. And, therefore, there wouldn't be an
11	IIHS procedure that encompassed the entire test.
12	Q. And is the same thing true for procedures
13	related to FMVSS testing?
14	A. So, FMVSS, which is a compliance test,
15	there is a fuel system integrity test. There is a
16	well-defined procedure on how to run a fuel system
17	integrity test. Again, that test is different from
18	the subject crash. But it is a good reference point
19	on how to conduct a high-speed, rear-impact test.
20	Q. Are there any FMVSS required regulatory
21	tests that are similar to the subject crash?
22	MS. CANNELLA: Object to the form of the
23	question. Similar is a vague word.
24	MR. HILL: He used the term "similar" in
25	his last answer. So I'm using it in the way he used

	Page 75
1	it.
2	MS. CANNELLA: Just stating my objection.
3	BY MR. HILL:
4	Q. Go ahead.
5	A. So, the closest FMVSS is 301 to the
6	subject crash, but but I'm not suggesting it's
7	identical.
8	Q. Okay. Were you ever involved in any
9	and correct me if I use the wrong terms, I'm trying
10	to use what you stated nonregulatory
11	performance-related crash testing that involved
12	analysis of rear-impact collisions?
13	A. Uhm, so in addition to nonregulatory
14	tests, there are, uhm some manufacturers have
15	do carry load load cases or test modes. So these
16	are these are tests that are not required by any
17	government agency and are not going to be used for
18	informing the public, but the manufacturer has
19	established that their own internal requirements
20	require them to do additional testing. And so I have
21	been involved in rear impact load cases and tests,
22	which are not compliance for nonregulatory tests,
23	yes.
24	Q. And you say rear impact load cases, is
25	that load test. Was that the term you used?

Page 76

A. Yeah, load cases, crash tests.

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- Q. All right. And in any of those load cases or crash tests involving rear impact, were any of those performed without Stoddard solvent in the gas tank?
- A. Yeah, off the top of my head I -- I can't answer that. This is some time ago. You know, I'd refer you to my earlier answer, which is -- you know, even in -- even in due care load cases, you're still trying to relate either back to prior incidents that the manufacturers' learned from or some sort of established test procedure.

You know, it's very infrequent that vehicles are impacted with an empty fuel tank. So fuel is usually -- and fuel leakage is -- is a big concern. And so representing a fuel substitute that allows you to monitor the potential for fuel leakage is -- is very typical in my experience.

- Q. Fuel leakage was not an issue in the subject crash, correct?
- A. Uhm, yes. I don't remember that being noted on the police report or any of the scene images.
- Q. And I believe your answer to the last question was that you're not -- you can't recall, as

	Page 77
1	you sit here today, whether any of the testing you
2	just described that you were involved with involved a
3	test that did not include Stoddard solvent; is that
4	correct?
5	A. Yeah. I can't remember the detail of any
6	fuel care
7	Q. Okay.
8	A test I've been involved with. But what
9	I did state very clearly was that typically,
10	especially rear impacts, fuel system leakage is a
11	concern. And oftentimes that was a focus of any
12	testing that was conducted. Therefore, the fuel was
13	represented, so that could be checked.
14	Q. Sure. I'm going to attempt to share
15	whoops. All right. Can you see my shared screen?
16	A. Yes, I can.
17	MR. HILL: All right. This comes from the
18	material that you presented or produced to us or
19	that Ms. Cannella produced to us. And I believe it's
20	just entitled PowerPoint presentation. But it's
21	labeled as Bryson 9643 through 9646. And I'd like to
22	mark this as whatever our next exhibit is.
23	(Defendant's Exhibit No. 3 was marked for
24	identification.)
25	BY MR. HILL:

	Page 78
1	Q. Is this a PowerPoint presentation from
2	your files in this case?
3	A. Yeah, I think the name of the document is
4	Scan Comparison.
5	Q. All right. Sorry if I it did I just
6	was reading from the top, and I guess it didn't show
7	it. Sorry.
8	All right. So, the first page of this we
9	have the subject and an exemplar placed over each
10	other from a number of different angles. And I
11	assume the purpose of this is just to show that the
12	subject wheelbase did not change after the subject
13	accident; is that fair?
14	A. That's that's right. That was the
15	point of that image showing the obviously, the
16	subject vehicle was on a hoist. So you you've got
17	a slight difference in the wheel positions there.
18	And the alignment is based on the body, the undamaged
19	body.
20	Q. Sure. And we've already talked about the
21	next page, where you have the roof panel bowing
22	figure or image that was in your report.
23	A. Yes.
24	Q. Is that the same image? Am I correct
25	about that?

	Page 79
1	A. Right.
2	Q. And then you also have a exemplar
3	wheelbase compared to the crash test wheelbase
4	showing a 5-inch reduction in the wheelbase?
5	A. Yes, about five inches.
6	Q. Okay. Yeah, I'm sorry, about.
7	All right. And then if we go ahead to
8	what's labeled as Bryson 9646. This doesn't really
9	have much of an explanation. I think I understand
10	what it means. But could you explain what these two
11	images represent?
12	A. Yes. So this this image is actually in
13	my report. It's Image 7.
14	Q. Right.
15	A. So, it's entitled "Static Seat Angle
16	Comparison." So here on the left, you've got the
17	point cloud from the crash test overlaid with the
18	subject. Sorry, the crash test overlaid with the
19	exemplar Escape data. On the right you have the
20	subject Escape overlaid with the exemplar. And I'm
21	simply trying to compare the amount of seat back
22	deformation.
23	Q. And this is the static deformation from
24	after both crashes; is
25	A. That's right, it's

	Page 80
1	Q that correct?
2	A. These scans were taken post-crash, so it's
3	the static deformation, that's correct.
4	Q. Right. And you're saying that the crash
5	test deformation is the image on the left?
6	A. That's correct, yes.
7	Q. And it shows a 65-degree angle there.
8	What is that ang what does that 65 degrees
9	represent?
10	A. That is the seat back relative to
11	horizontal plane.
12	Q. All right. And is that to represent where
13	the seat back was moved during the test crash?
14	A. No. So, it shows that the seat back angle
15	is largely unchanged between the crash test seat and
16	the exemplar seat. So the exemplar seat, as you can
17	see, is almost parallel. Seat back angle is almost
18	parallel to the dotted line, which is the crash test
19	seat back angle.
20	Q. Gotcha. And then the figure on the right
21	is showing the static position of the subject Escape
22	seat, correct?
23	A. That's correct, yeah.
24	Q. Okay.
25	A. You can see that that angle now is more

	Page 81
1	than 90 degrees to the horizontal, as shown in the
2	in the crash vehicle.
3	Q. Great. Would you agree that the rear seat
4	back was deformed in the crash test?
5	A. Uhm, so I think I'm saying that there was
6	some translation of the seat back and the seat in the
7	crash test.
8	Q. And how is translation different from
9	deformed?
10	A. So, the seat appears to have moved
11	relative to the original position in the X direction,
12	as opposed to the seat back being displaced in a way
13	that would effect the occupant kinematics.
14	Q. Do you know how far the seat was displaced
15	in the X direction?
16	A. No, I I didn't measure that. But, I
17	mean, you can get a sense from that that image.
18	Q. All right. And are you saying that in the
19	Y direction the seat back did not move at all from
20	its original position?
21	A. No, I'm not saying that. You can see from
22	some of the pictures of the seat I think we have a
23	picture on page on page 6, which is Image 5. You
24	can see the the seats appear to have so the
25	60/30 split has separated slightly and so there's a

	Page 82
1	little bit of rotation around the X's axis. But in
2	terms of the forward displacement of the seat back,
3	it's certainly significantly less than the subject
4	vehicle.
5	Q. But there was some forward seat
6	displacement of the rear back in the crash test?
7	A. As as along with the seat base, yes,
8	this as is shown in that image that you have on
9	the screen.
10	Q. Okay. So you would agree that something
11	impacted the rear of the second row seat in the crash
12	test and displaced it both in the X and the Y axis?
13	A. No, that's not what I'm saying. I'm
14	saying
15	Q. Okay.
16	A that the underbody was loaded, the
17	underbody is deformed, as I as you mentioned
18	earlier. The wheelbase was actually reduced. And so
19	you've got some translation of of the seat and the
20	structure, which the seat is mounted to. And that's
21	depicted in that image.
22	Q. So is it your opinion that all of the
23	movement of the second row seat was due to the floor
24	displacement? Am I understanding that correctly?
25	A. I'm saying that, uhm, that level of

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intrusion analysis, I haven't conducted that. I'm -I am showing you that the relative position of the
seat between the crash test and the subject crash -I'm highlighting the seat back angle between the two.
And I'm stating that the entire seat was translated
in the -- in the crash test. And -- and
that's -- that's the degree of my observations.

Page 83

- Q. Okay. So just to be -- be clear, and I don't mean to put words in your mouth. I believe I just heard you say that you haven't analyzed the full extent of the cause of the translation of the rear seat in the crash test, other than to say that you observed that at least some of that translation was due to the movement of the floor of the Escape in the crash test, is that fair?
- A. Yeah, that's -- that's part of it. I mean, there was no analysis conducted as part of Grimes' work. He didn't really analyze seat motion significantly, so I haven't been able to form any opinions on his analysis.

Obviously, if the seat back had been loaded significantly, you would expect the seat back angle to change. And what I'm showing here is that the seat back angle is largely unchanged between the crash test post -- crash test Escape post-test to an

	Page 84
1	exemplar seat back.
2	Q. And you haven't analyzed it, just like
3	Mr. Grimes haven't hasn't analyzed it, beyond what
4	you just described to me, is that fair?
5	A. That's right.
6	MS. CANNELLA: Objection, asked
7	THE WITNESS: This is his test.
8	MS. CANNELLA: and answered.
9	BY MR. HILL:
10	Q. Okay. Sure. And you're not an expert in
11	biomechanics, correct?
12	A. Yeah, I don't I don't offer any
13	biomechanical opinions here.
14	Q. And you're not going to offer any opinions
15	in this case regarding the cause of Cohen
16	Bryant Cohen's injuries or death, correct?
17	A. No. I mean, the opinions I've offered
18	relate to occupant motion when a seat is rotated more
19	than 90 degrees. That would tend to force the
20	occupant towards the back of the front seat. And
21	that's the extent of my opinion.
22	Q. Okay. On page well, let's first cover
23	a general top general term, "override." How do
24	you define the term "override," in the context of
25	of its application to this case?

	Page 85
1	MS. CANNELLA: Objection. How is this in
2	the scope of his report and supplemental report?
3	MR. HILL: Because he talks in the
4	supplemental report that the crash test did not
5	involve an override situation. It's one of his
6	opinions
7	MS. CANNELLA: Okay.
8	MR. HILL: in the report. It's
9	directly
10	MS. CANNELLA: I
11	MR. HILL: relevant to his opinion.
12	MS. CANNELLA: I withdraw my objection.
13	BY MR. HILL:
14	Q. Go ahead.
15	A. Yes. So in an override or underride case,
16	you have a lack of structural engagement between, in
17	this case, the frame rails of the truck and the
18	longitudinals of the SUV.
19	So here in the crash test, we can see that
20	the underbody and the longitudinals were engaged,
21	were deformed, were crushed, which is in stark
22	contrast to the subject crash vehicle, where the
23	underbody longitudinals were largely left intact and
24	the floor and upper structure was peeled away from
25	it.

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Q. And just -- I think I understand it, but just so the jury understands it. What do you mean by "longitudinals"?

A. So, those are the energy-absorbing structures in a -- in a unibody vehicle, a unitary construction vehicle like a Ford Escape, when you don't have a separate body and frame. So the frame rails effectively are integrated within the body structure. And so those -- there's various industry terms, rails, longitudinals, essentially substitute for the frame rails in a unibody vehicle. The rear bumper beam, the beam structure is attached in line with those rails. And that is the structure that is designed and intended to absorb energy and dissipate energy in a rear-impact event or conversely in the front of the vehicle, front impact.

- Q. Right. So -- just so I make sure I understand, if the -- if there's any engagement between the longitudinals and the bumper of the F-250, that would not qualify as an override?
 - A. You can have --
 - Q. That --
- A. You can have partial overlap, partial misalignment. In this instance, there was good engagement, there was good structural deformation of

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Page 87

the underbody, and that's what I'm using to form the basis that there was compatibility and no override in this crash.

- Q. Okay. In the subject crash, was there impact between the Cs (ph) brackets and the bumper beam of the -- of the Escape?
- A. So, I've got a comparison image on -which is Image No. 2, where I compared the rearview
 of both Escapes, crash test on the left, subject
 crash vehicle on the right. And in terms of
 override, that's really what I'm talking about.

On the left you can see the underbody has been deformed and displaced forward in vehicle. On the right, the underbody is largely exposed and the upperbody is being pushed forward relative to the underbody.

- Q. My question was, was -- was there contact between the F-250 Cs (ph) bracket in the subject crash and the bumper beam of the Escape in the subject crash?
- A. Yes, I think that question is going to be beyond the scope of this report. This -- I can happily talk to you about my opinions related to the Cs (ph) brackets on the crash test. I certainly reviewed those. And I'm prepared today to discuss my

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	Page 88
1	opinions on on the Cs (ph) brackets in the crash
2	test.
3	Q. Well, I'm trying to understand your
4	definition of override. And there's a description of
5	override that you just gave that I'm trying to see if
6	that applies to the subject crash or not.
7	So the question is, if there's Cs (ph)
8	impact to the bumper beam in the subject crash, why
9	do you still consider that to be an override
10	condition, as opposed to the crash test, which you've
11	opined is not an override condition? That's what
12	MS. CANNELLA: Objection to
13	MR. HILL: that's how it's relevant to
14	your subject opinions.
15	MS. CANNELLA: I'll object to that
16	question as to how it relates to subject crash, but
17	not as to it relates to the crash test.
18	BY MR. HILL:
19	Q. Go ahead.
20	A. Yeah, so when you describe an override,
21	you're you're talking about many aspects and not
22	necessarily the behavior of one single part of the
23	structural engagement. So rather than the
24	effectiveness of the Cs (ph) bracket, it's effect on
25	the subject crash, I'm making an override opinion

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based on the fact that the large part of the front of the F-250 was able to move relative to the underbody without engaging it significantly, without causing it to crush and collapse in a way that it was designed to.

So in that right image there, if there had been compatibility, if there had been no override, we wouldn't see those exposed longitudinals hanging rearward of the vehicle with the upper structure stripped off of it.

- Q. I understand. Based upon your answer there, do you believe that in the crash test the longitudinals operated as designed in the test Escape?
- A. No. I'm offering the opinion that the longitudinals and underbody structure was involved in a crash event, was deformed, and absorbed energy and dissipated the energy.

Relative to design -- Ford's design intent, I can't opine on that. But I can tell you that those structures played a -- a role in the crash test that didn't in the subject crash.

Q. Understood. You give the opinion on page 12 that the Exponent crashed (sic) test intrusion increase is likely due to the test setup. Can you

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Page 90 say, with a reasonable degree of scientific certainty, that the Exponent crash test -- crash test intrusion increase was due to the test setup? Well, on page 12 what I say is, if the Α. crash test intrusions were higher -- because I'm simply responding to what Mr. Grimes' claims, that the intrusions were higher in the crash test. I'm simply responding. I didn't do an intrusion I don't have intrusion values or a analysis. comparison of the intrusion values. Mr. Grimes came up with an opinion on that, which I think I discuss somewhere else in the report. But my comment there is related to the fact that if they were higher, it would be unusual because you have good underbody structural engagement. And based on my experience, based on the research, based on the available testing out there for compatibility, when you have greater compatibility, you have less intrusion, not more.

Q. Move to strike as unresponsive. I'll ask it again.

Can you say, with a reasonable degree of scientific certainty, that the Exponent crash test intrusion increase was due to the test setup? Yes or no?

	Page 91
1	MS. CANNELLA: Asked and answered.
2	THE WITNESS: I'm not I'm not opining
3	on whether the intrusions were increased or not. I'm
4	responding to Mr. Grimes' statement that he thinks
5	they were.
6	BY MR. HILL:
7	Q. Okay.
8	A. And I'm also saying that there are so many
9	differences, so many variables have been changed
10	between the crash test and subject crash that drawing
11	any conclusion about the level of intrusions is is
12	impossible, because too many variables to have
13	been been modified, which is against the stated
14	intent of GSI 34 (ph), which is the right height
15	change.
16	Q. So for that very same reason, it's
17	impossible for you to opine as to whether the test
18	setup led to the test intrusion increase, correct?
19	MS. CANNELLA: Object to the form.
20	THE WITNESS: I'm saying that there were
21	many inconsistencies in the in the crash test
22	relative to the subject crash. And it was conducted
23	in an improper manner, if you're trying to follow
24	scientific process to isolate the contribution of
25	just right height difference.

	Page 92
1	BY MR. HILL:
2	Q. Have you told me, during this deposition,
3	the a a full list well, scratch that.
4	Scratch that.
5	MR. HILL: Let's take a like a
6	two-minute break.
7	MS. CANNELLA: How much longer do you
8	have? Because we only have ten minutes left.
9	MR. HILL: Yeah, I won't need more than
10	two minutes.
11	MS. CANNELLA: Okay. Great.
12	THE VIDEOGRAPHER: Off the record at
13	11:50.
14	(Recess was taken from 11:50 a.m. to 11:57
15	a.m.)
16	THE VIDEOGRAPHER: Back on the record.
17	The time, 11:57.
18	BY MR. HILL:
19	Q. Mr. Roche, are there any opinions that we
20	did not discuss today and that are not listed in your
21	report that you intend to give with regard to the
22	crash testing conducted by Exponent?
23	A. Well, some of the opinions that are in the
24	report we haven't discussed.
25	Q. And that's why I why I asked it the way

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	Page 93
1	I asked it. So we have what we discussed, and then
2	we have the opinions in the report. Are there any
3	opinions beyond those two topics that you intend to
4	give with regard to the Exponent crash testing?
5	A. No, they are captured in this report.
6	Q. All right. And the basis for those
7	opinions, all testing, simulations, calculations,
8	analysis, work, scientific methodology, all of that
9	that goes to support the opinions you intend to give
10	regarding the crash test have either been discussed
11	today in the deposition or are contained in your
12	report; is that correct?
13	A. That's correct.
14	MR. HILL: Okay. I have no further
15	questions. Thank you, Mr. Roche.
16	MS. CANNELLA: (Indicating.) I don't have
17	any questions either.
18	THE VIDEOGRAPHER: Okay. Off the record
19	11:58.
20	(The witness, after having been advised of
21	his right to read and sign the transcript, does not
22	waive that right.)
23	(Deposition was concluded at 11:58 a.m.)
24	
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1	CERTIFICATE OF REPORTER
2	I, MARY K. STEPP, Notary Public for the State of
3	South Carolina at Large, do hereby certify that the
4	foregoing transcript is a true, accurate, and
5	complete record.
6	I further certify that I am neither related to
7	nor counsel for any party to the cause pending or
8	interested in the events thereof.
9	Witness my hand, I have hereunto affixed my
10	official seal this 1st day of August, 2024, at
11	Campobello, Spartanburg County, South Carolina.
12	
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16	
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18	907 - 5192 (2014)
19	Form second Nancy L. Stepp
	Mary K. Stepp, Notary Public
20	My Commission Expires:
	March 1, 2028
21	
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24	
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	Page 96				
1	Tedra L. Cannella				
2	tedra@cannellasnyder.com				
3	August 2, 2024				
4	RE: Bryson, Santana And Joshua v. Rough Country, LLC				
5	7/17/2024, Christopher D. Roche (#6801963)				
6	The above-referenced transcript is available for				
7	review.				
8	Within the applicable timeframe, the witness should				
9	read the testimony to verify its accuracy. If there are				
10	any changes, the witness should note those with the				
11	reason, on the attached Errata Sheet.				
12	The witness should sign the Acknowledgment of				
13	Deponent and Errata and return to the deposing attorney.				
14	Copies should be sent to all counsel, and to Veritext at				
15	cs-southeast@veritext.com.				
16	Return completed errata within 30 days from				
17	receipt of testimony.				
18	If the witness fails to do so within the time				
19	allotted, the transcript may be used as if signed.				
20					
21					
22	Yours,				
23	Veritext Legal Solutions				
24					
25					

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			Page
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Christon	pher D. Ro	che (#680196	3)
		E R R A T A	SHEET
PAGE	LINE	CHANGE	
REASON			
PAGE	LINE	CHANGE	
Christon	pher D. Ro	che	Date

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L	Bryson, Santana And Joshua v. Rough Country, LLC
2	Christopher D. Roche (#6801963)
3	ACKNOWLEDGEMENT OF DEPONENT
1	I, Christopher D. Roche, do hereby declare that I
5	have read the foregoing transcript, I have made any
5	corrections, additions, or changes I deemed necessary as
7	noted above to be appended hereto, and that the same is
3	a true, correct and complete transcript of the testimony
,	given by me.
)	
L	
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	*If notary is required
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	, DAY OF, 20
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Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES

ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

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as submitted by the court reporter. Veritext Legal

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documents as submitted by the court reporter and/or

attorneys in relation to this deposition and that

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